



DEPARTMENT OF PERMITTING, ENVIRONMENT, AND REGULATORY  
AFFAIRS (PERA)  
BOARD AND CODE ADMINISTRATION DIVISION

## NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY, FLORIDA  
PRODUCT CONTROL SECTION  
11805 SW 26 Street, Room 208  
Miami, Florida 33175-2474  
T (786) 315-2590 F (786) 315-2599

[www.miamidade.gov/pera/](http://www.miamidade.gov/pera/)

**Ingersoll-Rand Company**  
**6810 Hillsdale Court**  
**Indianapolis, IN 46250**

### SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County PERA-Product Control Section to be used in Miami-Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami-Dade County) and/or the AHJ (in areas other than Miami-Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. PERA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

**DESCRIPTION:** Series "IR, Steelcraft H16-4 FL 8080 Double Or Single" Outswing Full Louvered Commercial Steel Doors (Thermal efficiency of this product is not part of this approval) – L.M.I.

**APPROVAL DOCUMENT:** Drawing No. 882W-2, dated 08/12/02, with revision "E" dated 10/13/03, titled "Dade County H16-4 FL 8080 Double Doors (Outswing) with Full Louver IR Commercial Lock Hardware", Sheets 1 through 7 of 7, prepared by manufacturer, signed and sealed by Gordon Thomas, P. E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and Expiration date by the Miami-Dade County Product Control Section.

**MISSILE IMPACT RATING:** Large and Small Missile Impact Resistant.

**LABELING:** Each unit shall bear a permanent label with the manufacturer's name or logo, Cincinnati, Ohio, models/ series and following statement: "Miami-Dade County Product Control Approved" unless otherwise noted herein.

**RENEWAL** of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

**TERMINATION** of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

**ADVERTISEMENT:** The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

**INSPECTION:** A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA revises NOA No. 08-0908.20 and consists of this page 1, evidence pages E-1 and E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by **Jaime D. Gascon, P. E.**



*J. Gascon*  
5/30/12

NOA No. 12-0305.09  
Expiration Date: November 13, 2013  
Approval Date: June 07, 2012  
Page 1

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**A. DRAWINGS**

1. Manufacturer's die drawings and sections.  
*(Submitted under previous NOA No. 03-0327.02)*
2. Drawing No. **882W-2**, dated 08/12/02, with revision "E" dated 10/13/03, titled "Dade County H16-4 FL 8080 Double Doors (Outswing) with Full Louver IR Commercial Lock Hardware", Sheets 1 through 7 of 7, prepared by manufacturer, signed and sealed by Gordon Thomas, P. E.

**B. TESTS**

1. Test reports on:
  - 1) Air Infiltration Test, per FBC, TAS 202-94
  - 2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
  - 3) Large Missile Impact Test per FBC, TAS 201-94
  - 4) Cyclic Wind Pressure Loading per FBC, TAS 203-94
  - 5) Forced Entry Test, Side-Hinged Door Systems, per FBC 2411 3.2.1, TAS 202-94 and per AAMA 1304-02along with marked-up drawings and installation diagram of a louvered commercial steel door system, prepared by Certified Testing Laboratories, Inc., Test Reports No.'s:
  - a) **CTLA-882W-2 w/ Air Louver, Inc. - 1500A** steel louver, **National Guard Products L-VRSG-2 Air Louver** steel louver blades and **Anemostat PLSL** fixed blades louver insert, dated 08/29/02, signed and sealed by Ramesh Patel, P. E.
  - b) **CTLA-1107W-2 w/ Anemostat FLDL-UL-SGI** fusible link louver insert and **Anemostat PLSL** fixed blades louver insert, dated 09/05/03, signed and sealed by Ramesh Patel, P. E.*(Submitted under previous NOA No. 03-0327.02)*

**C. CALCULATIONS**


1. Anchor verification calculations and structural analysis, complying with FBC, Evaluation Report No. S05-014R2, dated 06/07/06, prepared, signed and sealed by Gordon Thomas, P. E.  
*(Submitted under previous NOA No. 08-0908.20)*
2. Glazing complies with ASTM E1300-04

**D. QUALITY ASSURANCE**

1. Miami-Dade Department of Permitting, Environment, and Regulatory Affairs (PERA).

**E. MATERIAL CERTIFICATIONS**

1. **Air Louver, Inc. - 1500A** steel louver, **National Guard Products L-VRSG-2 Air Louver** steel louver blades and **Anemostat No. PLSL** fixed blades louver insert.
2. **Anemostat No. FLDL-UL-SGI** fusible link louver insert and **Anemostat No. PLSL** fixed blades louver insert.  
*(Submitted under previous NOA No. 03-0327.02)*

  
Jaime D. Gascon, P. E.  
Product Control Section Supervisor  
NOA No. 12-0305.09  
Expiration Date: November 13, 2013  
Approval Date: June 07, 2012

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**F. STATEMENTS**

1. Statement letter of no financial interest, conformance and compliance with the **FBC-2010**, dated 02/15/12, signed and sealed by Gordon Thomas, P. E.
2. Laboratory compliance letters issued by Certified Testing Laboratories, Inc., for each Test Reports No.'s:
  - a. **CTLA-882W-2 w/ Air Louver, Inc. – 1500A** steel louver, **National Guard Products L-VRSG-2 Air Louver** steel louver blades and **Anemostat PLSL** fixed blades louver insert, dated 08/29/02, signed and sealed by Ramesh Patel, P. E.
  - b. **CTLA-1107W-2 w/ Anemostat FLDL-UL-SGI** fusible link louver insert and **Anemostat PLSL** fixed blades louver insert, dated 09/05/03, signed and sealed by Ramesh Patel, P. E.  
(Submitted under previous NOA No. 03-0327.02)

**G. OTHERS**

1. Notice of Acceptance No. **08-0908.20**, issued to Ingersoll-Rand Company, for their Series "**Steelcraft H16-4 FL 8080 Outswing Full Louvered Commercial Steel Doors (Thermal efficiency of this product is not part of this approval) – L.M.I.**", approved on 01/01/09 and expiring on 11/13/13.



**Jaime D. Gascon, P. E.**

**Product Control Section Supervisor**

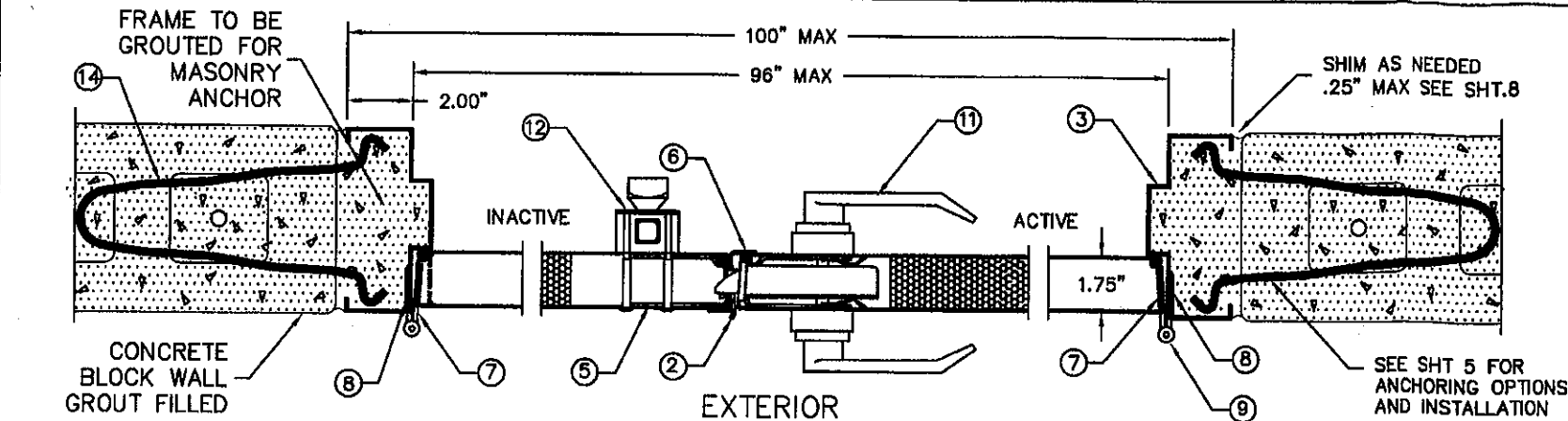
**NOA No. 12-0305.09**

**Expiration Date: November 13, 2013**

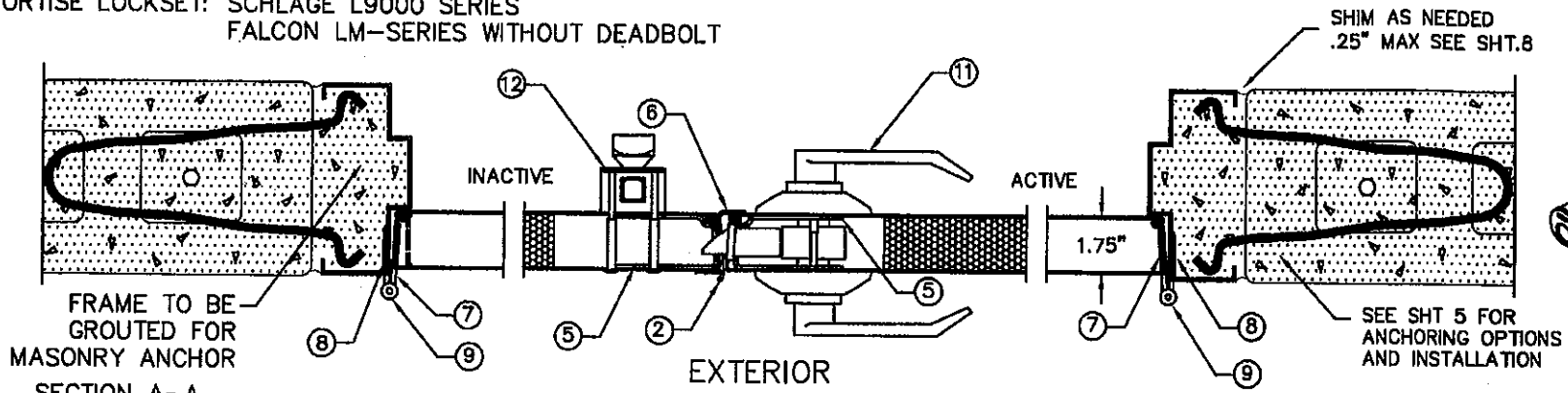
**Approval Date: June 07, 2012**



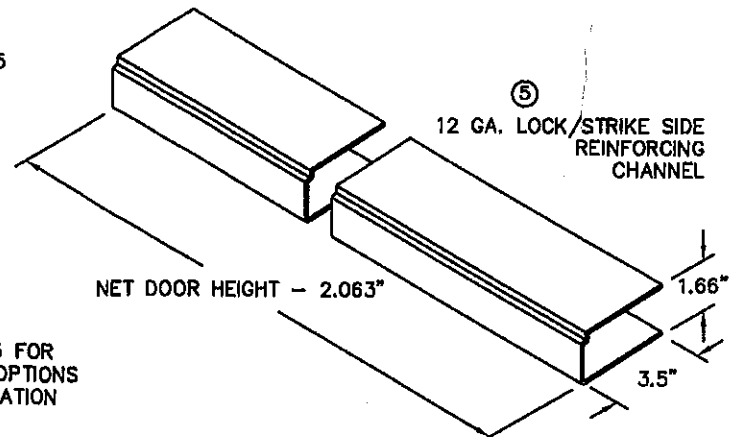
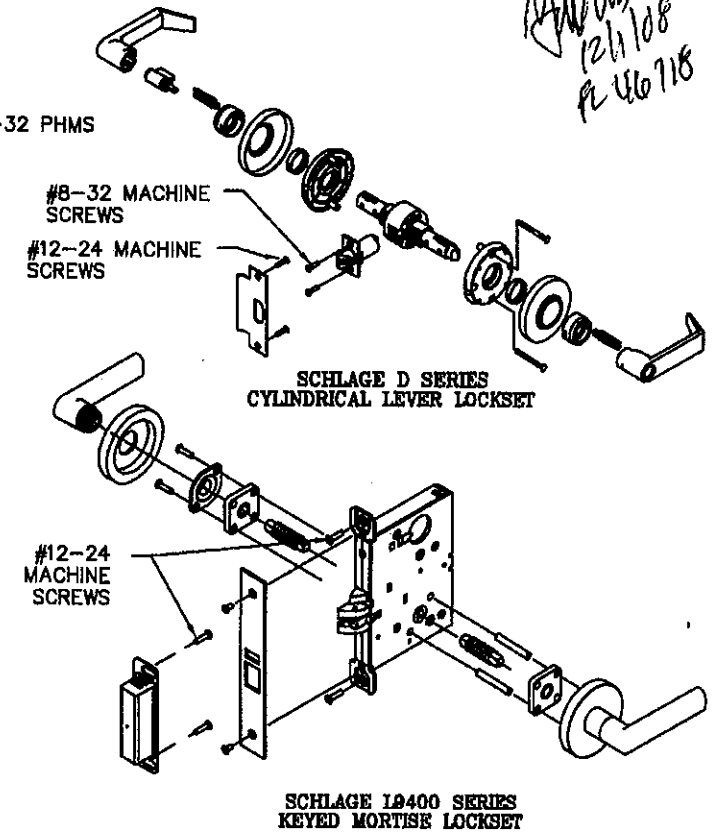
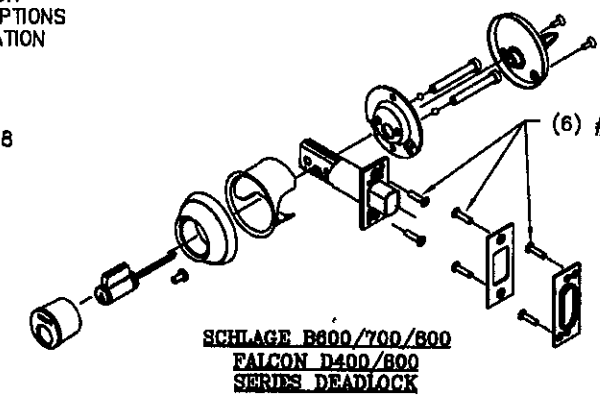
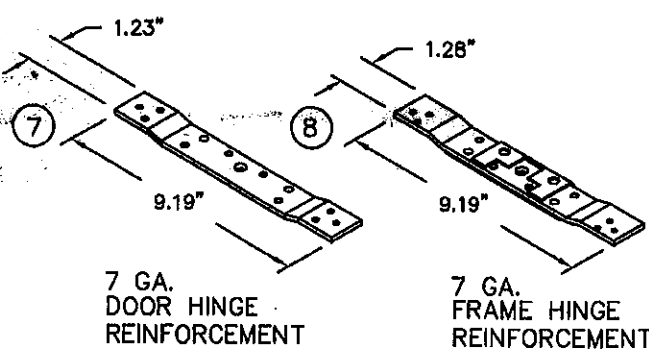
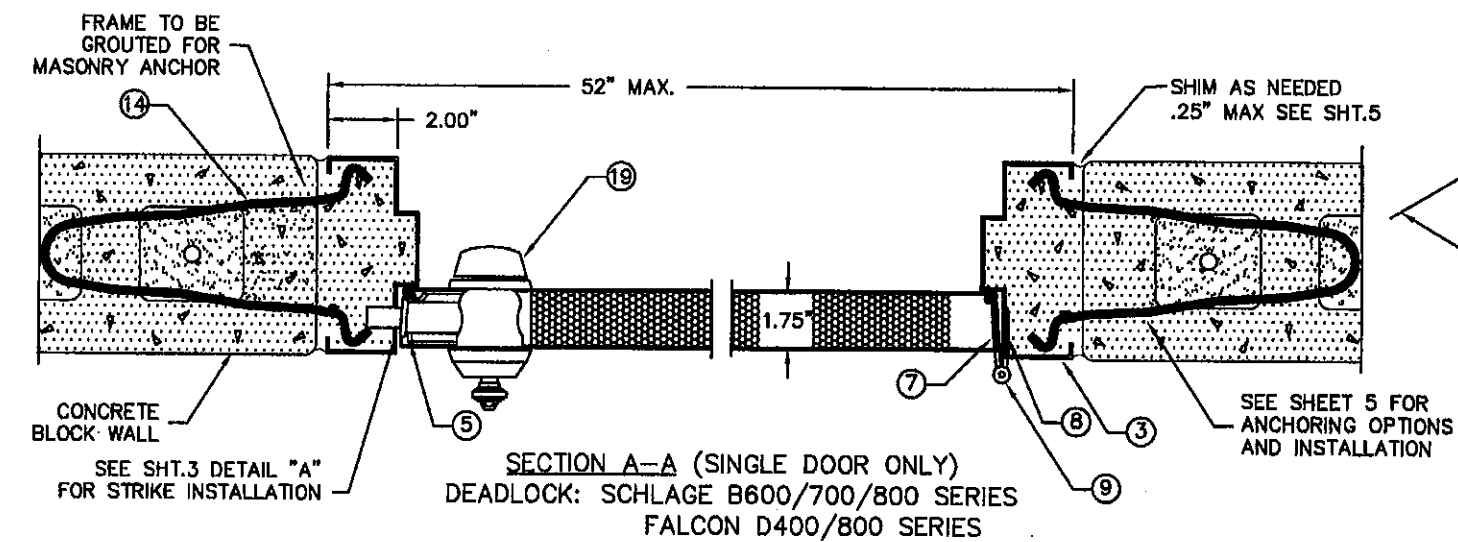
REVISIONS			
LTR	DESCRIPTION	DATE	APPROVED
A	APPROVAL DWG	02/26/03	
B	MODIFIED PER DC BCCO	09/23/03	
C	MODIFIED PER DC BCCO	10/08/03	
D	MODIFIED PER DC BCCO	10/13/03	



SECTION A-A  
MORTISE LOCKSET: SCHLAGE L9000 SERIES  
FALCON LM-SERIES WITHOUT DEADBOLT



SECTION A-A  
CYLINDRICAL LOCKSET:  
SCHLAGE D - SERIES  
FALCON T - SERIES  
ALL CYL. LOCKS WITH 3/4" THROW LATCH

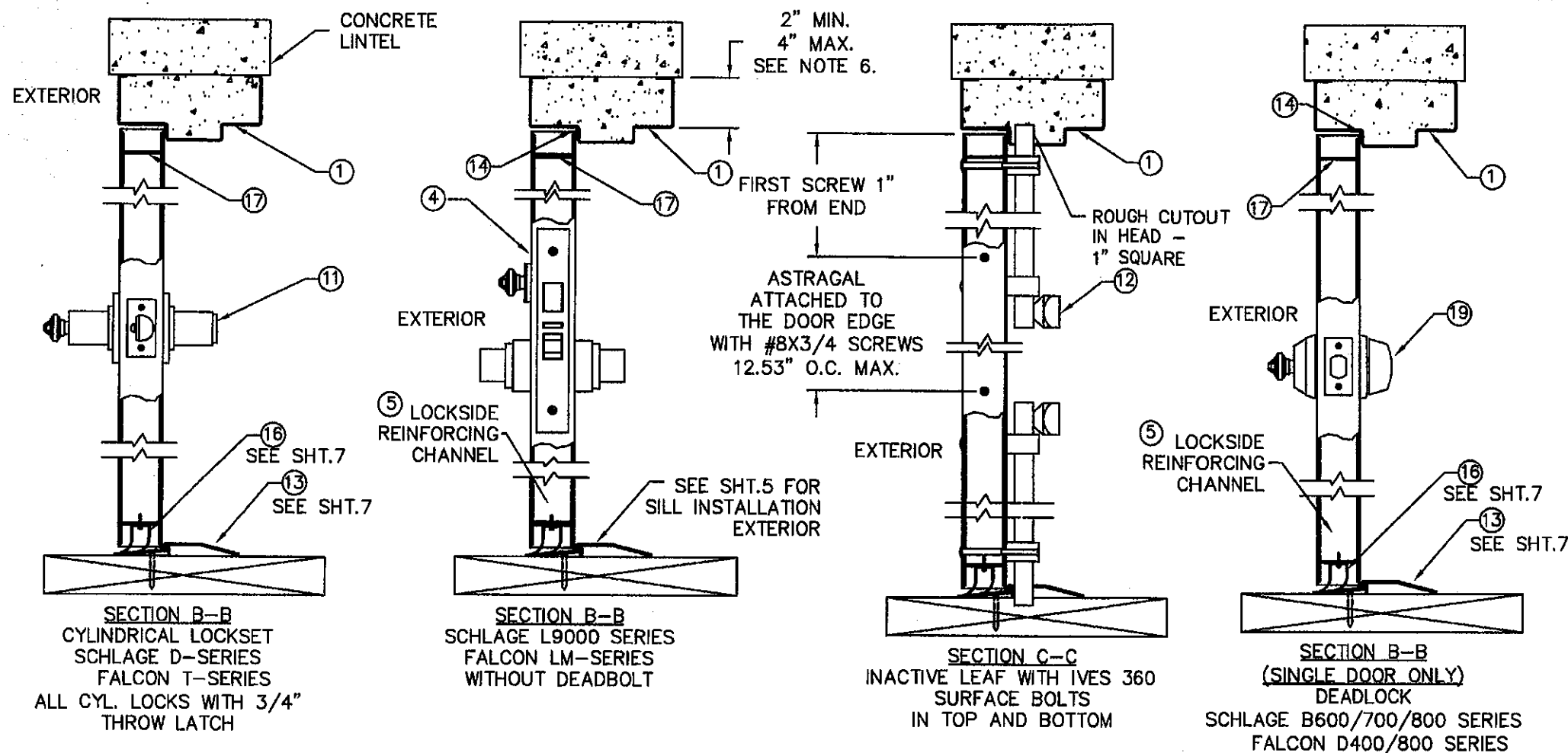


- NOTES:
1. SEE SHT.1 FOR ELEVATION, MATERIAL AND SIZE
  2. SEE SHT.1 NOTE 2. AND SHT.5 FOR ANCHOR REQUIREMENTS
  3. SEE SHT.5 FOR WALL CONSTRUCTION AND ANCHORING SYSTEM OPTIONS AND INSTALLATION
  4. SEE SHT.4 FOR AVAILABLE OPENING SIZES, JAMB DEPTHS AND SPECIFICATIONS
  5. APPROVED HARDWARE AND LOUVER INSTALLATION AS PER MANUFACTURER'S INSTRUCTIONS

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No. 12-0305.09  
Expiration Date 11/13/2013  
By *[Signature]*  
Miami Dade Product Control

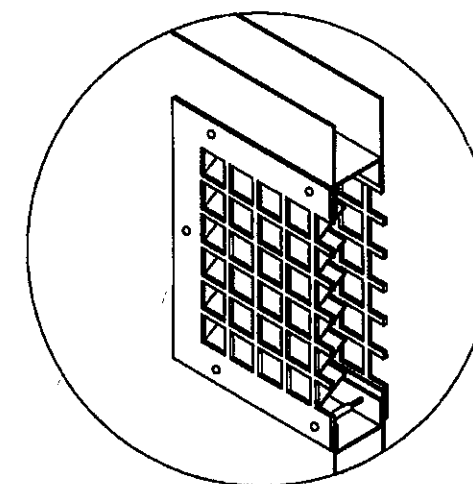
PRODUCT RENEWED  
as complying with the Florida  
Building Code  
Acceptance No. 08-0808.20  
Expiration Date 11/13/2013  
By *[Signature]*  
Miami Dade Product Control  
Division

BEND RADIUS				<b>INGERSOLL-RAND COMPANY</b> STEELCRAFT MFG. 9017 BlueAsh Rd. Cincinnati Ohio 45242	
THIRD ANGLE PROJECTION	DATE	TITLE		DADE COUNTY	
DRAWN YMF	08/12/02	CROSS SECTION OF DOOR AND FRAME		IR COMMERCIAL LOCK HARDWARE	
CHECKED		H16 4 FL 8080 FULL LOUVER		DOUBLE DOORS	
APPROVED		SIZE	FLAT	DWG NO.	882W-2
ENG. APPVL		SCALE:	NTS	AUTOCAD	REV D
					SHEET 2 OF 7

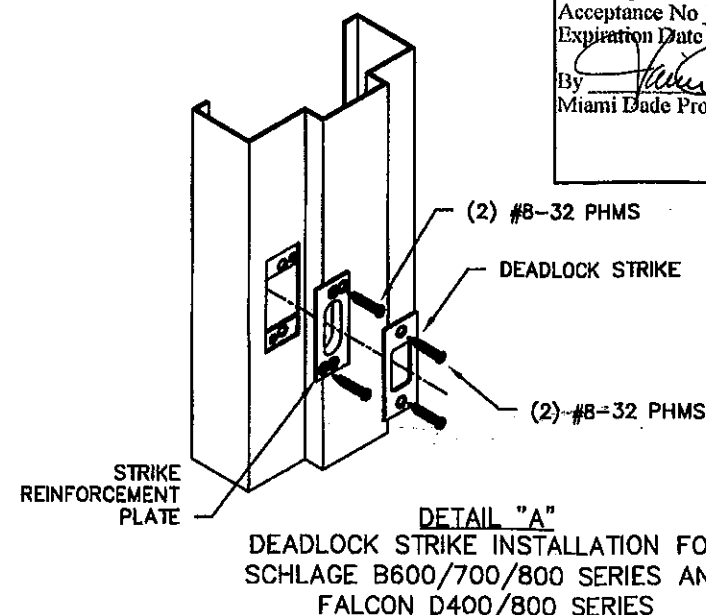
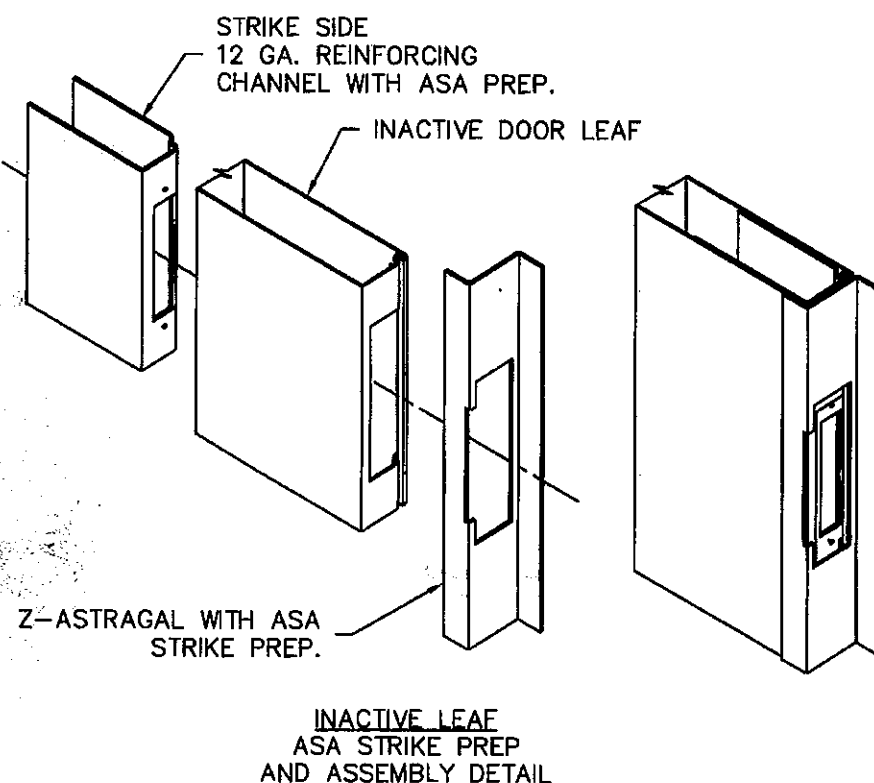


# REVISIONS

LTR	DESCRIPTION	DATE	APPROVED
A	APPROVAL DWG	02/26/03	
B	MODIFIED PER DC BCCO	09/23/03	
C	MODIFIED PER DC BCCO	10/08/03	



SECURITY LOUVER DETAIL  
LOUVERS: NATIONAL GUARD L-VRSG-2  
AIR LOUVERS 1500-A  
ANEMOSTAT PLSL OR FLDL-UL-SG1 OR SG2



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as complying with the Florida  
Building Code  
Acceptance No. 08-0908-20  
Expiration Date 10/13/2013  
By *[Signature]*  
Miami Dade Product Control  
Division

## NOTES:

1. SEE SHT.1 FOR ELEVATION, MATERIAL AND SIZE
2. SEE SHT.1 NOTE 2. FOR ANCHOR REQUIREMENTS
3. SEE SHT. 5 FOR WALL CONSTRUCTION AND ANCHORING SYSTEM
4. SEE SHT. 4 FOR AVAILABLE OPENING SIZES, JAMB DEPTHS AND SPECIFICATIONS
5. HARDWARE INSTALLATION IS PER MANUFACTURER'S INSTRUCTIONS
6. HEAD SECTION CAN HAVE 4\"/>

BEND RADIUS		<p>THIRD ANGLE PROJECTION</p>		<p>DATE 08/12/02</p>		<p>REV C</p>	
DRAWN YMF							
CHECKED		APPROVED		ENG. APPVL		<p>SCALE: NTS AUTOCAD</p>	
<p>INGERSOLL-RAND COMPANY</p> <p>STEELCRAFT MFG.</p> <p>9017 BlueAsh Rd. Cincinnati Ohio 45242</p>		<p>TITLE: DADE COUNTY</p> <p>CROSS SECTION OF DOOR AND FRAME</p> <p>IR COMMERCIAL LOCK HARDWARE</p> <p>H16 4 FL 8080</p> <p>FULL LOUVER DOUBLE DOORS</p>		<p>SIZE: FLAT</p> <p>DWG NO. 882W-2</p>		<p>SHT 3 OF 7</p>	

AVAILABLE DOOR CONFIGURATIONS  
(SEE NOTE 1.)

TABLE 1.

CORE MATERIAL PER SHT.7	MAXIMUM OPENING SIZE		SKIN MATERIAL	
	WIDTH	HEIGHT	DESCR.	GA./MIN. THK
HONEYCOMB POLYSTYRENE POLYURETHANE	8'0"	8'0"	CRS GALV	16/.053" 14/.067"
HONEYCOMB POLYSTYRENE POLYURETHANE	8'0"	8'0"	STAINLESS STEEL	16/.053"

MINIMUM YIELD STRENGTH = 27,000 PSI

AVAILABLE FRAME CONFIGURATIONS  
(SEE NOTE 2.)

TABLE 2.

FRAME SERIES	JAMB DEPTH	MAXIMUM OPENING SIZE		MATERIAL	
		WIDTH	HEIGHT	DESCR.	GA./MIN. THK
F	5.75" MIN.	8'0"	8'0"	CRS/HRS GALV	16/.053" 14/.067" 12/.099"
				STAINLESS STEEL	16/.053"
MU	5.75" MIN.	8'0"	8'0"	CRS/HRS GALV	16/.053" 14/.067"

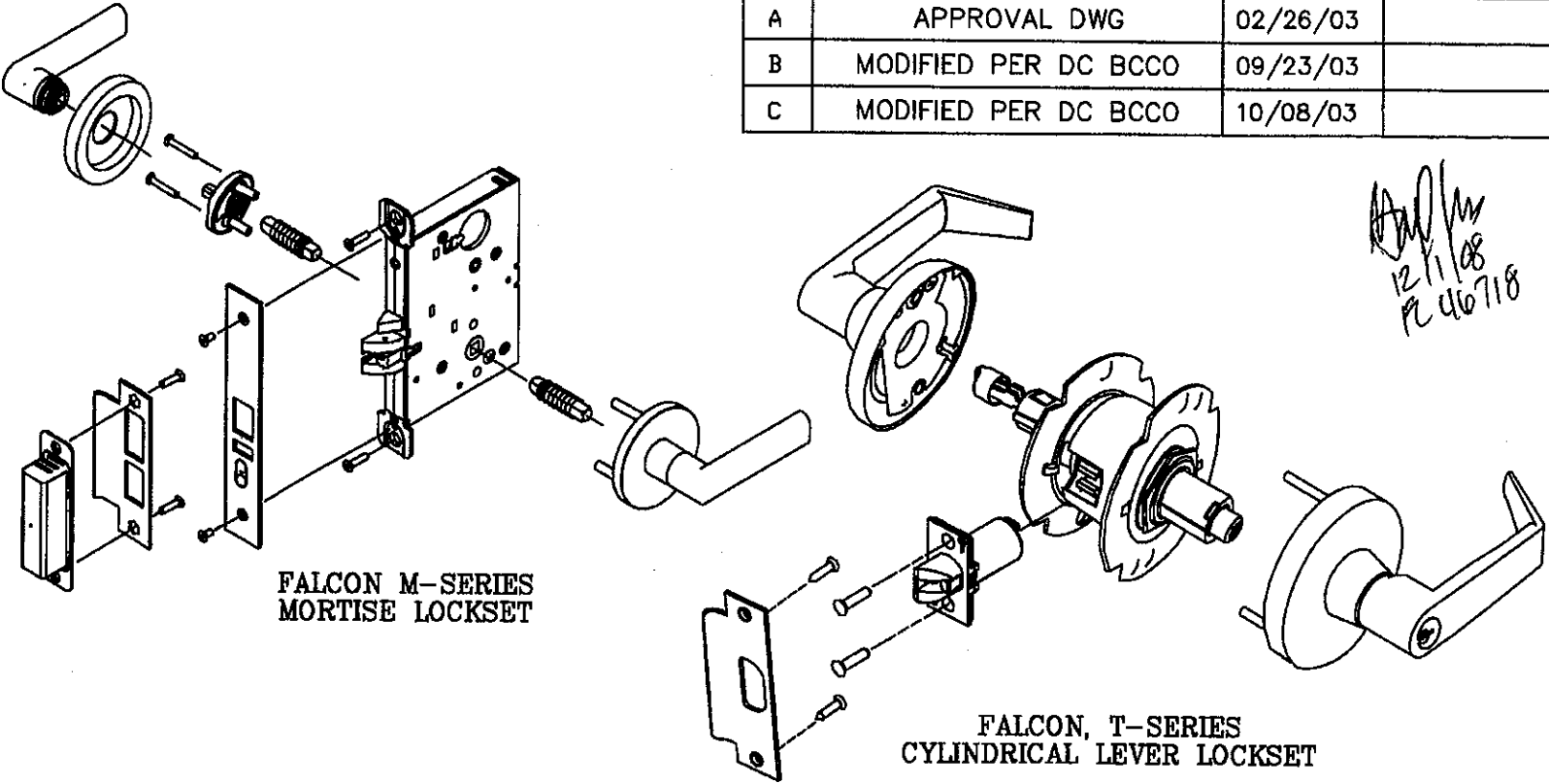
MINIMUM YIELD STRENGTH = 27,000 PSI

TABLE 3.

CRS ASTM A1008
HRS ASTM A1011
GALV: A60 ASTM A924
STL: 304,306 ASTM A240

REVISIONS

LTR	DESCRIPTION	DATE	APPROVED
A	APPROVAL DWG	02/26/03	
B	MODIFIED PER DC BCCO	09/23/03	
C	MODIFIED PER DC BCCO	10/08/03	



NOTES:

- DOOR CONSTRUCTION
  - 1.1. MINIMUM DOOR THICKNESS - 1 3/4"
  - 1.2. LOUVER OPENING SIZE TESTED (SEE SHEET 1) IS MAX SIZE AVAILABLE FOR 8'0" X 8'0" OPENING. ALL SMALLER SIZES ARE ACCEPTABLE.
  - 1.3. MAXIMUM LOUVER OPENING SIZE WILL CHANGE IN PROPORTION WITH DOOR SIZE, KEEPING THE SAME STILE AND RAIL MINIMUM DIMENSIONS SPECIFIED IN ELEVATION ON SHEET 1 OF 7.
- FRAME CONSTRUCTION
  - 1.1. MINIMUM JAMB DEPTH - 5 3/4", STOP HEIGHT - 5/8"
  - 2.2. FRAMES AVAILABLE AS FLUSH (F-SERIES) AND MULT-USE (MU-SERIES) (SEE TABLE 2)

3. FOR MATERIAL SPECIFICATIONS REFERENCE SEE TABLE 3.

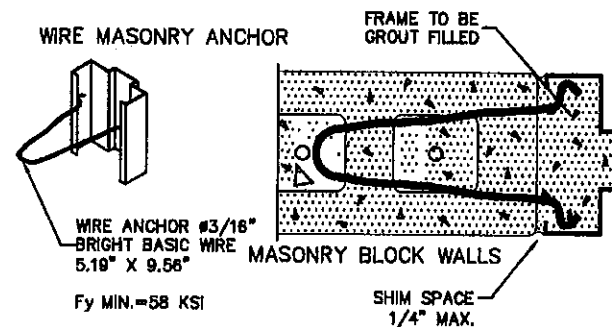
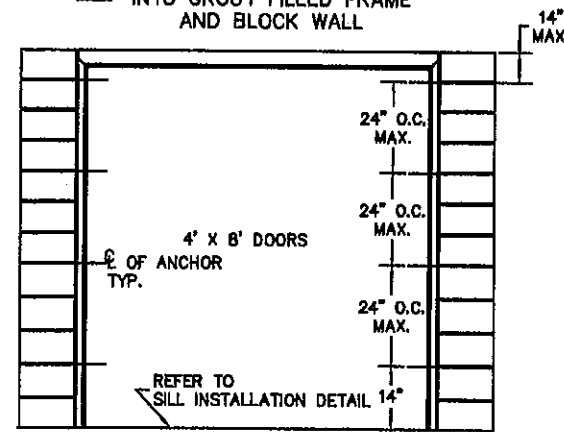
<b>PRODUCT REVISED</b> as complying with the Florida Building Code Acceptance No. <b>12-0305.09</b> Expiration Date <b>11/13/2013</b> By <i>[Signature]</i> Miami Dade Product Control	<b>PRODUCT RENEWED</b> as complying with the Florida Building Code Acceptance No. <b>08-0928.20</b> Expiration Date <b>Nov 13, 2013</b> By <i>[Signature]</i> Miami Dade Product Control
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<b>BEND RADIUS</b>				<b>INGERSOLL-RAND COMPANY</b>	
<b>THIRD ANGLE PROJECTION</b>		<b>DATE</b> 08/08/02		<b>STEELCRAFT MFG.</b>	
<b>DRAWN</b> YMF	<b>CHECKED</b>	<b>TITLE</b> DADE COUNTY DOOR AND FRAME CONFIGURATIONS AND MATERIAL SPECS.			
<b>APPROVED</b>	<b>ENG. APPVL</b>	<b>SIZE</b> FLAT	<b>DWG NO.</b> 882W-2	<b>REV</b> C	
<b>SCALE</b> NTS		<b>AUTOCAD</b>		<b>SHT 4 OF 7</b>	

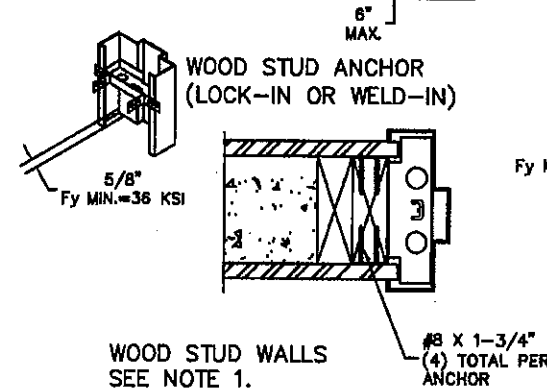
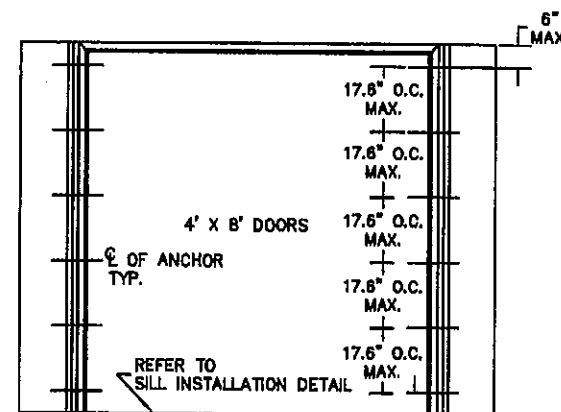
# REVISIONS

LTR	DESCRIPTION	DATE	APPROVED
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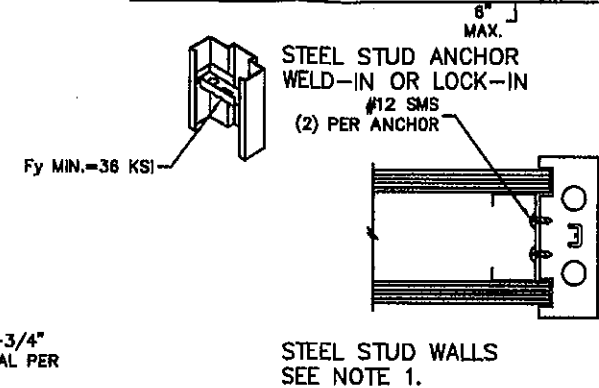
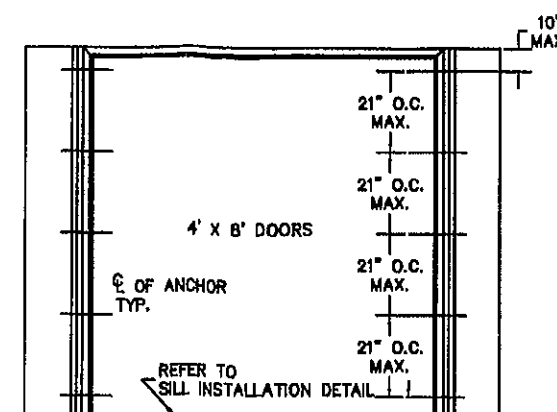
## A WIRE MASONRY ANCHOR INTO GROUT FILLED FRAME AND BLOCK WALL



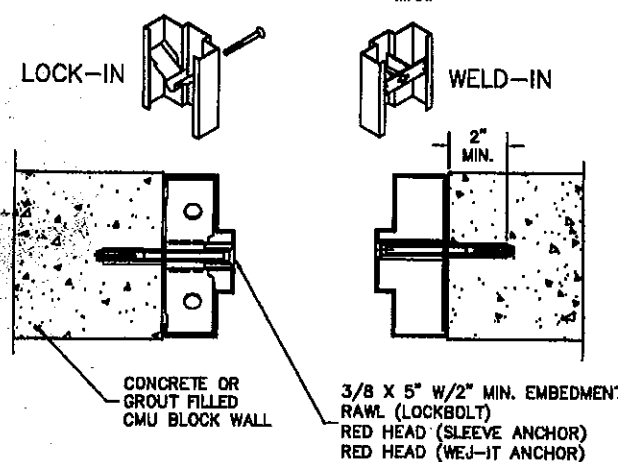
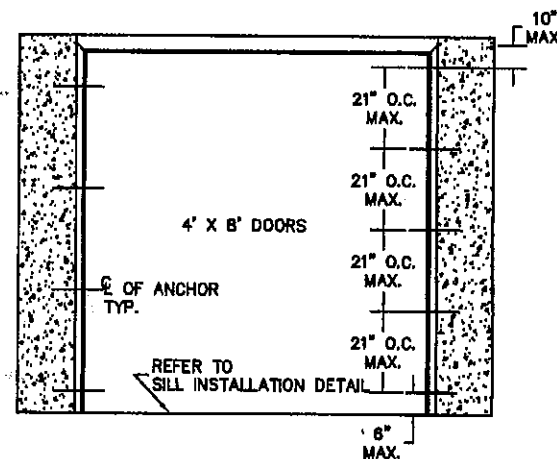
## B WOOD STUD ANCHOR



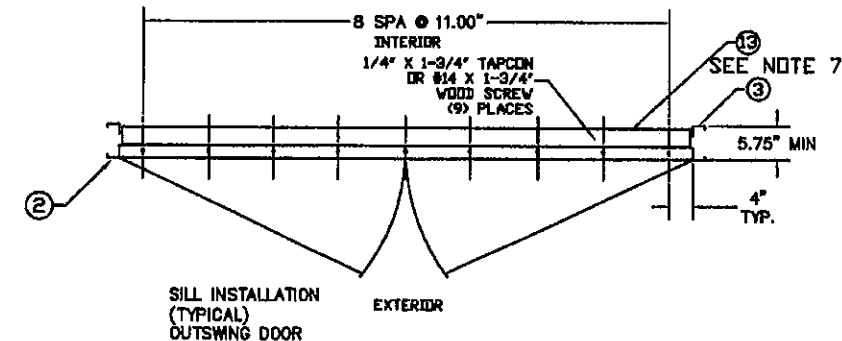
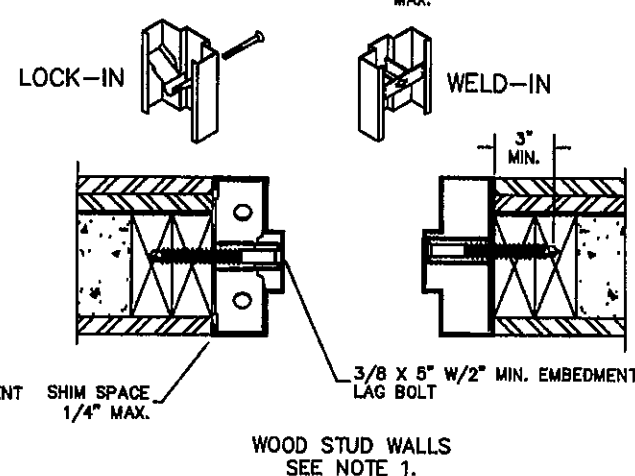
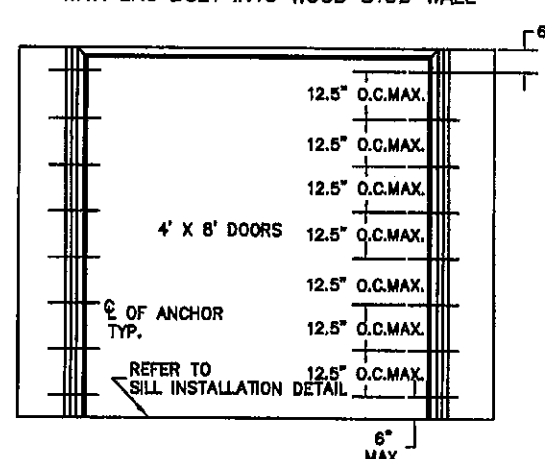
## C STEEL STUD ANCHOR



## D EXISTING MASONRY ANCHOR (EMA) INTO CONCRETE WALL OR CMU



## E EXISTING MASONRY ANCHOR (EMA) WITH LAG BOLT INTO WOOD STUD WALL



### NOTES:

1. WOOD OR STEEL STRUCTURAL MEMBERS OF WOOD AND STEEL-STUD WALLS MUST BE DESIGNED TO CARRY AT LEAST 320 #/ft. LOAD, AND SHOULD BE VERIFIED BY THE APPROPRIATE OFFICIAL.
2. NUMBER OF ANCHORS FOR VARIOUS OPENING HEIGHTS IS LIMITED BY MAXIMUM DISTANCE BETWEEN ANCHORS, SHOWN ON THIS SHEET.
3. APPLY CAULK AS NEEDED

PRODUCT REVISED  
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Expiration Date 11/13/2013  
By *[Signature]*  
Miami Dade Product Control

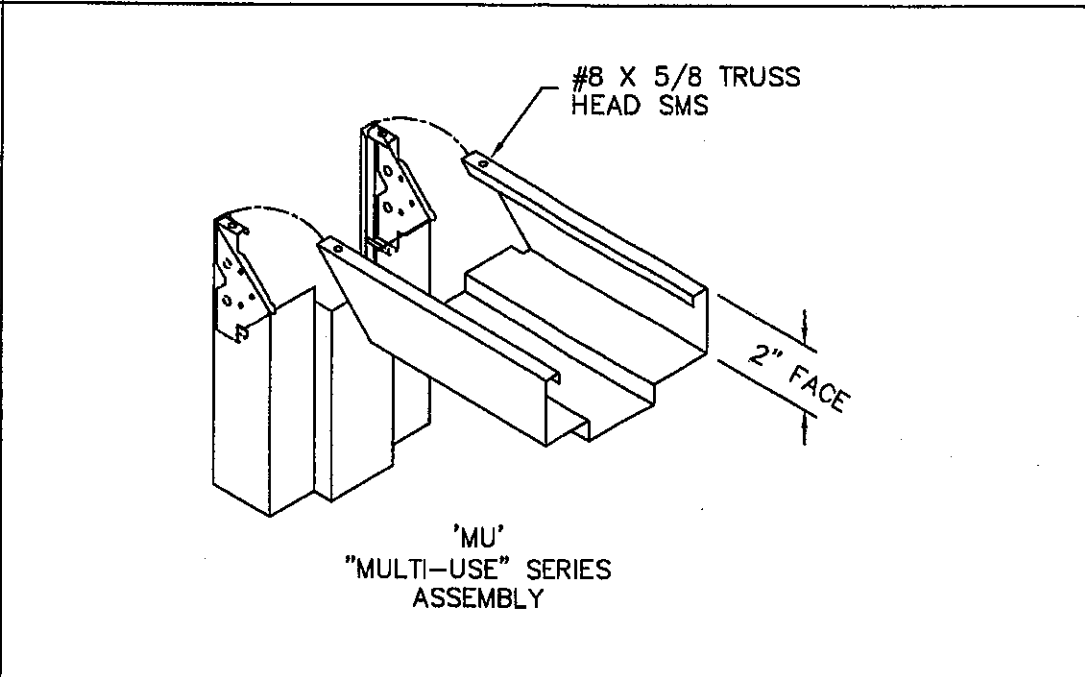
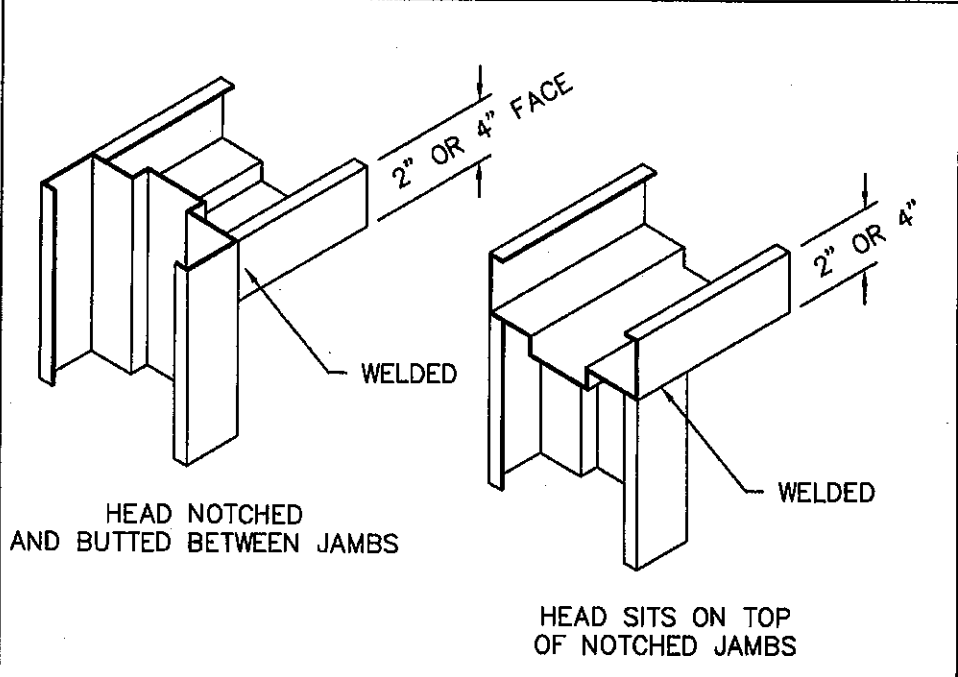
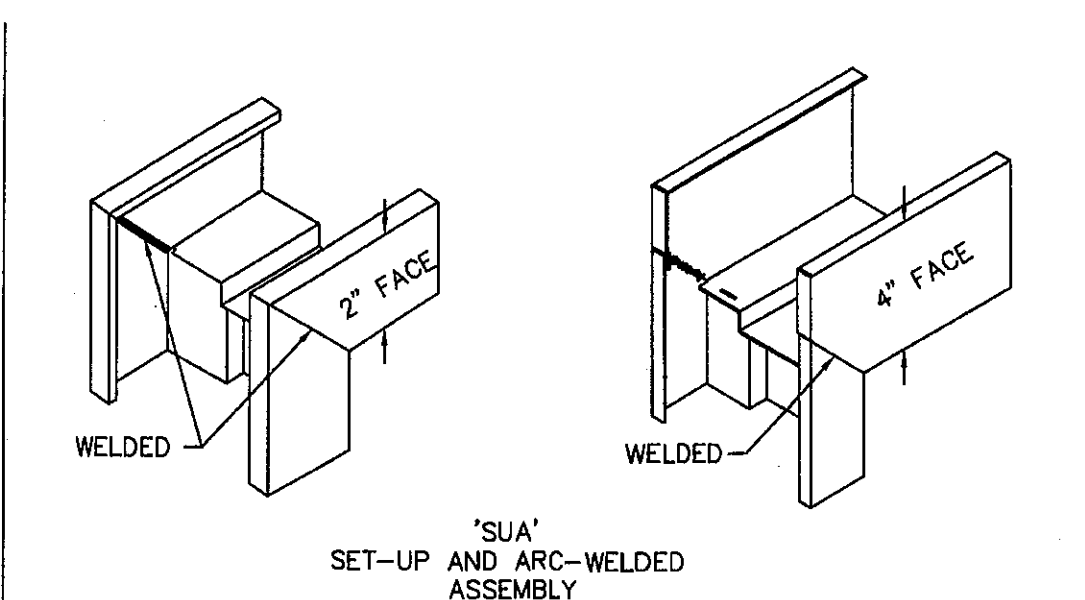
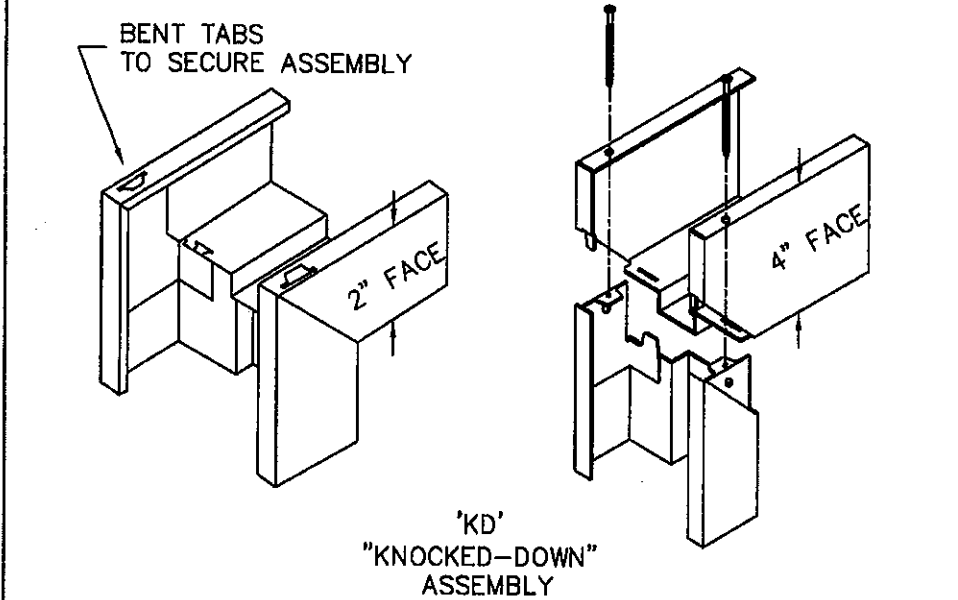
PRODUCT RENEWED  
as complying with the Florida  
Building Code  
Acceptance No. 08-0308.20  
Expiration Date NOV 13, 2013  
By *[Signature]*  
Miami Dade Product Control

BEND RADIUS		<b>INGERSOLL-RAND COMPANY</b> STEELCRAFT MFG. 9017 BlueAsh Rd. Cincinnati Ohio 45242	
THIRD ANGLE PROJECTION		TITLE DATE COUNTY	
DRAWN YMF	DATE 06/12/02	ANCHOR DETAILS/MOUNTING CONDITIONS	
CHECKED		SIZE	FLAT
APPROVED		DWG NO.	882W-2
ENG. APPVL		SCALE	NTS
		AUTOCAD	SHT 5 OF 7

*[Handwritten Signature]*  
12/1/08  
PL 46718



R E V I S I O N S			
LTR	DESCRIPTION	DATE	APPROVED
A	APPROVAL DWG	02/26/03	
B	MODIFIED PER DC BCCO	09/23/03	

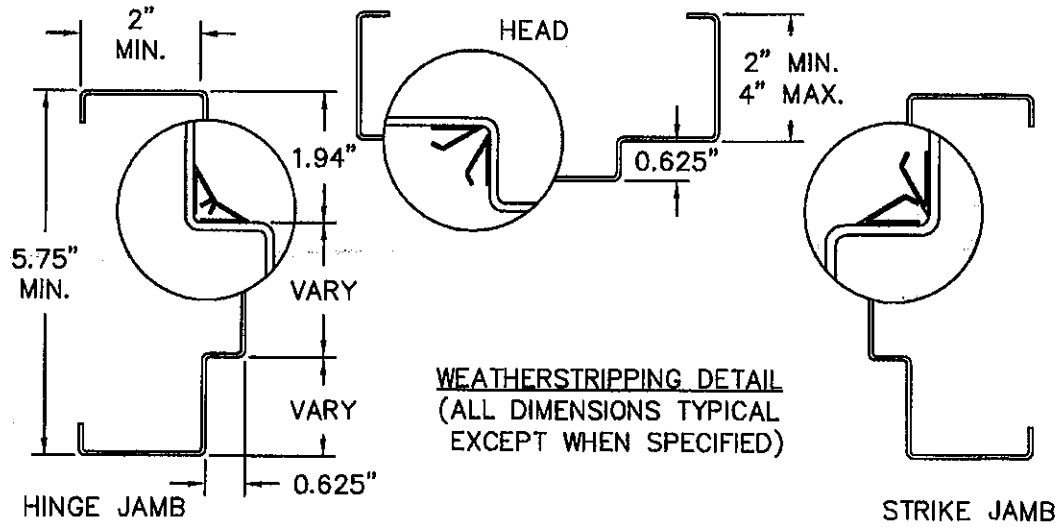


PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No. **12-0305.09**  
Expiration Date **11/13/2013**

By *[Signature]*  
Miami Dade Product Control

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No. **08-0908.20**  
Expiration Date **Nov. 13, 2013**

By *[Signature]*  
Miami Dade Product Control  
Division



BEND RADIUS

THIRD ANGLE PROJECTION

DRAWN YMF DATE 08/08/02

CHECKED

APPROVED

ENG. APPVL

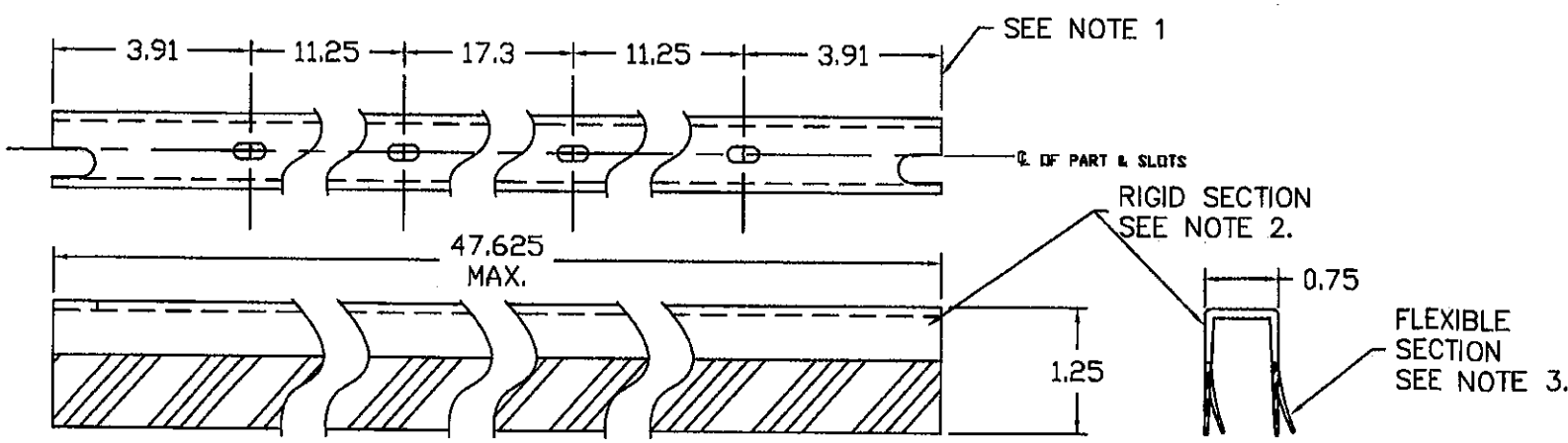
**INGERSOLL-RAND COMPANY**  
STEELCRAFT MFG  
9017 BlueAsh Rd. Cincinnati Ohio 45242

TITLE: DADE COUNTY  
CORNER DETAILS  
AND WEATHERSTRIPPING ATTACHMENT  
FOR FLUSH FRAME AND MU FRAMES

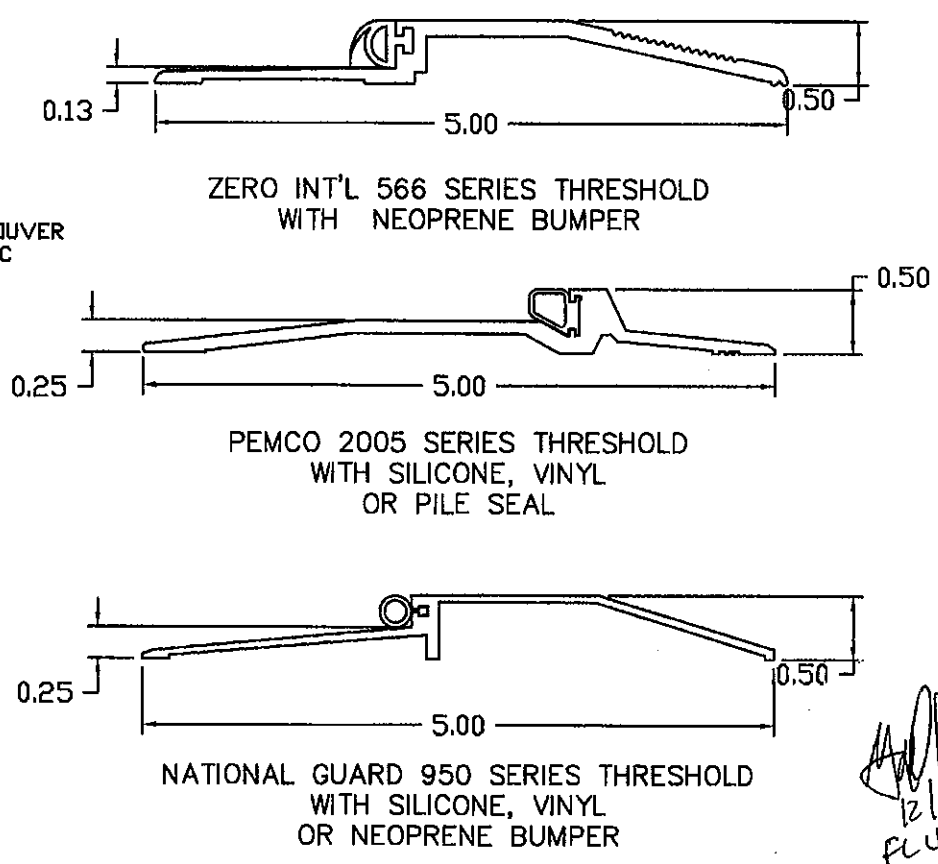
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SCALE: NTS AUTOCAD SHT 6 OF 7

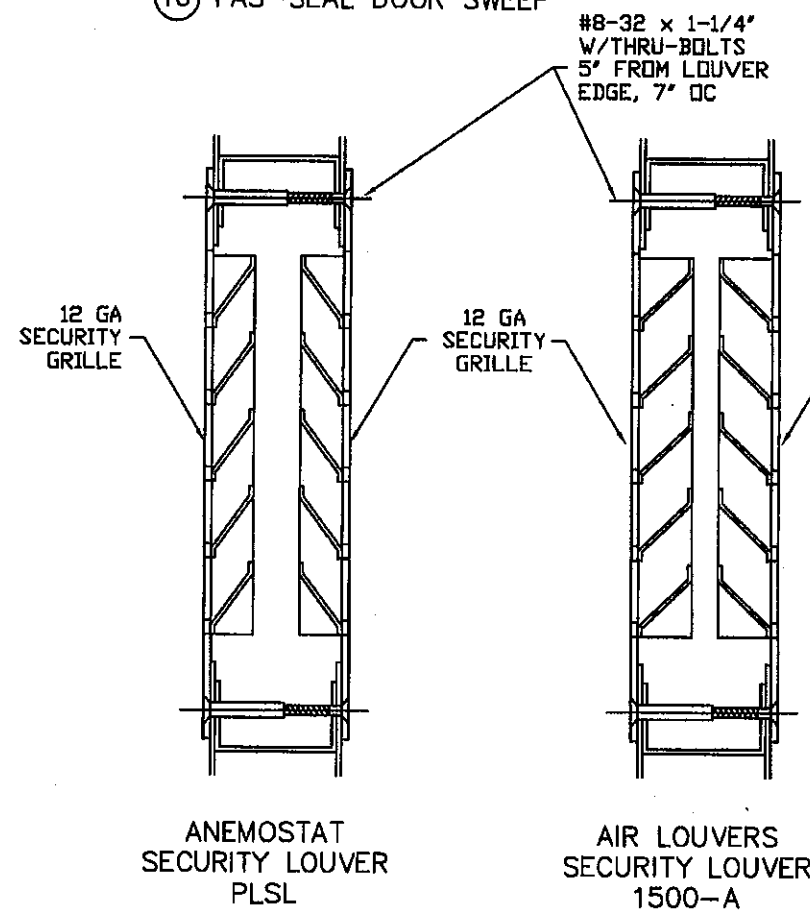
REVISIONS			
LTR	DESCRIPTION	DATE	APPROVED
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B	ADDED UL LOUVER	05/16/03	
C	MODIFIED PER DC BCCO	10/08/03	



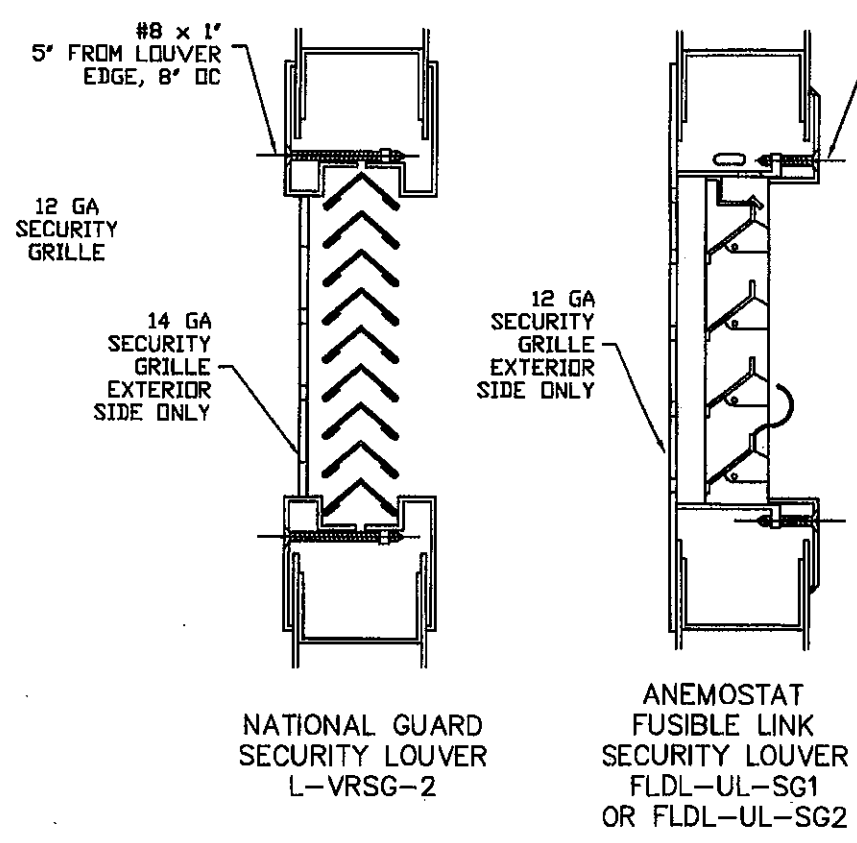
13 THRESHOLD OPTIONS



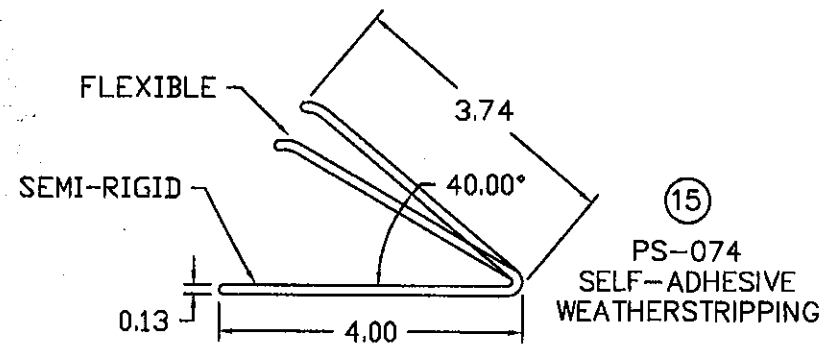
16 FAS-SEAL DOOR SWEEP



4 LOUVER OPTIONS



- NOTES:
1. SLOT LOCATIONS MAY VARY WITH DIFFERENT DOOR WIDTH.
  2. DOOR SWEEP RIGID SECTION IS MADE OF PRO-FAX #PD-199 POLYPROPYLENE HOMOPOLYMER
  3. DOOR SWEEP FLEXIBLE SECTION IS MADE OF SANTOPRENE #101-73 73 DUROMETER - SHORE A SCALE



PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No. **12-0305.09**  
Expiration Date **11/13/2013**

By *[Signature]*  
Miami Dade Product Control

PRODUCT RENAIWED  
as complying with the Florida  
Building Code  
Acceptance No. **08-0308.20**  
Expiration Date **Nov. 13, 2013**

By *[Signature]*  
Miami Dade Product Control

BEND RADIUS				<b>INGERSOLL-RAND COMPANY</b> STEELCRAFT MFG. 9017 BlueAsh Rd. Cincinnati Ohio 45242	
THIRD ANGLE PROJECTION					
DRAWN	YMF	DATE	08/02/02	TITLE	
CHECKED		DOUBLE DOORS ACCESSORIES BOTTOM SEEP THRESHOLDS, SECURITY LOUVERS AND WEATHERSTRIPPING			
APPROVED		SIZE	FLAT	DWG NO.	REV
ENG. APPVL		SCALE: NTS		882W-2	C
AUTOCAD				SHT 7 OF 7	